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From: Maas, Ken -FS
Sent: Mon 9/25/2017 6:01:48 PM
Subject: RE: Leviathan Mine - Focused Feasibility Study - Evaluation of Remedial Technologies for Leviathan Creek Beaver Dam pond Complex - Proposed Seed Mixture

Our zone botanist reviewed this species list and did not see any red flags in the mix that cause us immediate concern. Based on this, his recommendation was to proceed with the work described below. Let me know if there are additional elements that require our attention and input. Thanks for the opportunity to comment.



Kenneth Maas
On Scene Coordinator

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From: Lombardi, Marc [mailto:Marc.Lombardi@amecfw.com]
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To: Maas, Ken -FS <kmaas@fs.fed.us>
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Subject: Leviathan Mine - Focused Feasibility Study - Evaluation of Remedial Technologies for Leviathan Creek Beaver Dam pond Complex - Proposed Seed Mixture

Ken,

As you aware, Atlantic Richfield is conducting a Focused Feasibility Study within the Beaver Dam Pond Complex at the Leviathan Mine Site in Alpine County, California in accordance with a U.S. EPA approved work plan. The study area is within the on-property portion of Leviathan Creek downstream of the disturbed portion of the Leviathan Mine Site, within the Humboldt-Toiyabe National Forest. The study includes draining a number of beaver ponds, removing/breaching 3 beaver dams, constructing 2 gabion dams (for energy dissipation and retention of alluvial material) and establishing test plots to evaluate various erosion control measures for stabilizing sediments exposed in the drained beaver ponds. Most of the test plots will be seeded with native species. The proposed seed mix is shown below.

<u>Taxon</u>	<u>common name</u>	<u>lifeform</u>	<u>nativity</u>	<u>family</u>	<u>wetland</u>
Grasses					
Agrostis exarata	Bentgrass	Perennial grass	native	POACEAE	FACW
Elymus trachycaulus	Slender wheatgrass	Perennial grass	native	POACEAE	FAC
Glyceria elata	Tall mannagrass	Perennial grass	native	POACEAE	FACW
Rushes					
Juncus nevadensis	Sierra rush	Perennial grasslike herb	native	JUNCACEAE	FACW
Sedges					
Carex nebrascensis	Nebraska sedge	Perennial grasslike herb	native	CYPERACEAE	ØBL

Shrubs and Trees

Prunus virginiana var. demissa	Western choke cherry	Tree, Shrub	native	ROSACEAE FACU
Salix exigua	Narrowleaf willow	Tree, Shrub	native	SALICACEAE FACW
Salix lemmonii	Lemmon's willow	Shrub	native	SALICACEAE FACW

Note: if the seed is not commercially available a replacement native species will be substituted.

We are planning to seed the test plots before the end of the 2017 field season, and ideally in early October. Therefore, we request that USFS review and approve the proposed seed mixture at their earliest convenience.

Should you have any questions or comments please contact Tony Brown at (657) 529-4537 or anthony.brown@bp.com.

Thanks,

Marc

Marc R. Lombardi, CEM, PG

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